**Non-functional Requirements**

**1. Performance**

* The application should load movie data within 2 seconds.
* Efficient API calls to ensure minimal latency.
* Pagination implementation to optimize movie list loading.
* Use caching techniques to store frequently accessed movie data.

**2. Security**

* Secure API requests to prevent unauthorized access.
* Implement HTTPS to encrypt data transmission.
* Prevent Cross-Site Scripting (XSS) and Cross-Site Request Forgery (CSRF) attacks.
* Ensure secure state management and prevent potential security vulnerabilities.

**3. Usability**

* The interface should be intuitive and easy to navigate.
* Maintain UI consistency across all pages.
* Ensure accessibility for users with disabilities (ARIA support).
* Responsive design for optimal experience on different screen sizes.

**4. Reliability**

* Ensure high availability with minimal downtime.
* Handle API failures gracefully with fallback mechanisms.
* Implement proper error messages and logs for debugging.
* Conduct stress testing to ensure system stability under heavy loads.

**5. Maintainability & Scalability**

* Modular and reusable components for easy updates and enhancements.
* Scalable architecture to accommodate future feature expansions.
* Well-documented code for ease of maintenance by future developers.
* Version control and CI/CD pipeline for seamless updates.

These non-functional requirements will ensure the application is robust, secure, and user-friendly, enhancing overall performance and reliability.